

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	INTERPLAST S.A.
Address	Komotini Industrial Area, Komotini, 69100, PO Box:227, Komotini-Rodopi, Greece
Place of Production	INTERPLAST S.A. Komotini Industrial Area, Komotini, 69100, PO Box:227, Komotini-RodopiGreece
Type	Plastic Pipes
Description	Plastic Pipe Multi layered Polypropylene pipe with reinforced fiberglass layer.
Trade Name	AQUA-PLUS
Application	Onboard ships hot and cold water Installations.
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, 2021 IMO Resolution A.753(18) except fire endurance, toxicity and smoke generation test EN 13823: Reaction to fire tests for building products ISO 15874: Plastics piping systems for hot & cold water installations-Polypropylene DIN 8077 & DIN 8078

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Ratings

Size: 20 to 250 mm
Max. Working Pressure: 10 to 12 bar
Temperature: 20° to 70° C

Refer the manufacturer's product catalogue for detail outer diameter, minimum wall thickness & permissible pressure variation with service temperature.

Other Conditions

1. Pipes & fittings are to be selected and installed in accordance with the manufacturer's recommendations, and LR's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, Section 5.
2. For design temperatures higher than 20°C a pressure de-rating factor has to be applied in accordance with the manufacturer's recommendations.
3. Piping, connections and fittings are not electrically conductive, cannot be installed in areas that need conductive application (cargo tanks) and in fire areas (i.e. pump rooms).
4. The integrity of watertight bulkheads and fire division is not to be impaired. If the bulkhead or deck is also a fire division and destruction by fire of plastic pipes may cause the inflow of liquid from tanks, a metallic shut-off valve operable from above the freeboard deck is to be fitted at the bulkhead or deck.
5. Only be used on open decks and within tanks, cofferdams, void spaces, pipe tunnels and ducts.
6. The pipes & fittings are to be marked with the following information:
 - Manufacturer's name or trademark.
 - Pressure rating
 - Temperature range
 - Size

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2255029TA-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.